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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/845,724	05/02/2001	Fuzhai Cui	2191/49928	3811	
23911 75	590 09/08/2004		EXAMINER		
CROWELL & MORING LLP INTELLECTUAL PROPERTY GROUP P.O. BOX 14300			NAFF, DAVID M		
			ART UNIT	PAPER NUMBER	
WASHINGTO	DC 20044-4300		1651		
			DATE MAILED: 09/08/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

<u> </u>							
		Application No.	Applicant(s) CUI ET AL.				
		09/845,724					
	Office Action Summary	Examiner	Art Unit				
		David M. Naff	1651				
Period fo	The MAILING DATE of this communication apports. Or Reply	pears on the cover sheet with the	correspondence a	ddress			
THE - Exte after - If the - If NO - Failu Any	ORTENED STATUTORY PERIOD FOR REPL MAILING DATE OF THIS COMMUNICATION. nsions of time may be available under the provisions of 37 CFR 1.1 SIX (6) MONTHS from the mailing date of this communication. e period for reply specified above is less than thirty (30) days, a repl of period for reply is specified above, the maximum statutory period are to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be to within the statutory minimum of thirty (30) dawill apply and will expire SIX (6) MONTHS from the application to become ABANDON	imely filed ays will be considered time the mailing date of this IED (35 U.S.C. § 133).				
Status							
1)⊠	Responsive to communication(s) filed on 16 Ju	une 2004.					
· · · ·	This action is FINAL . 2b) This action is non-final.						
3)[Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposit	ion of Claims						
5)⊠ 6)⊠ 7)□	Claim(s) <u>1-8,11 and 12</u> is/are pending in the alea (a) Of the above claim(s) is/are withdraw Claim(s) <u>1-3</u> is/are allowed. Claim(s) <u>4-8, 11 and 12</u> is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/o	wn from consideration.					
Applicati	on Papers						
9)[The specification is objected to by the Examine	r.					
10)	10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
	Applicant may not request that any objection to the	drawing(s) be held in abeyance. Se	ee 37 CFR 1.85(a).				
11)	Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Ex						
Priority ι	ınder 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
Attachmen		_					
	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summan					
3) 🔲 Inform	e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date	Paper No(s)/Mail D 5) Notice of Informal 6) Other:	Patent Application (PT	O-152)			

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DETAILED ACTION

The amendment of 6/16/04 amended the specification and claims 1, 3, 4, 5 and 7.

Claims in the application are 1-8, 11 and 12.

In view of claims 1-3 being found allowable, and on further consideration of the restriction requirement, the restriction requirement is withdrawn, and claims 4-8, 11 and 12 are rejoined with claims 1-3.

Claims 4-8, 11 and 12 would be allowable if amended as suggested 10 below to overcome the following rejection.

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claim Rejections - 35 USC § 112

Claims 4-8, 11 and 12 are rejected under 35 U.S.C. 112, second

15 paragraph, as being indefinite for failing to particularly point out
and distinctly claim the subject matter which applicant regards as the
invention.

Claim 4 is unclear in line 2 of step (c) by not specifying whether the scale for 30° is centigrade or Fahrenheit.

Claims 5 (line 1) and claim 7 (bridging lines 1 and 2) are confusing and unclear by reciting "porous bone substitute or tissue engineering scaffold" since it is uncertain as to whether the bone substitute and tissue engineering scaffold differ, or are the same.

It is further unclear as to whether "porous" applies to both the bone substitute and tissue engineering scaffold or to only the bone

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substitute. Additionally, it is unclear as to whether "scaffold" applies to both "porous bone substitute" and "tissue engineering" or only to tissue engineering. To be clear, is suggested that "porous bone substitute or tissue engineering scaffold" be changed to --- porous scaffold for use as a bone substitute or in tissue engineering

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In line 2 of claim 6, "such as" makes unclear as to whether the proteins are required. It is suggested that line 2 be amended by replacing ", such as" with --- selected from the group consisting of ---, replacing "and" with a comma, and changing "as well as" to --- and ---. In line 3, "multiple" should be deleted since the meaning of "multiple glycoproteins" is uncertain.

In line 1 of step (c) of claim 7, --- the solution --- should be inserted after "pouring" to be clear as to what is poured. In line 2 of the step, the temperature scale (centigrade or Fahrenheit) for the temperature range recited should be specified.

In line 1 of step (d) of claim 7, "scaffold" should be replaced with --- solution --- since a scaffold does not result until after dioxane is removed. With this change, line 2 should be amended by after "dioxane" inserting --- to obtain said scaffold ---.

In line 1, claim 8 is confusing by reciting "porous bone substitute scaffold" which is inconsistent with the preamble of claim 7 on which claim 8 depends. It is suggested that "porous bone substitute scaffold" be replaced with --- porous scaffold --- to be consistent with the change to the preamble of claim 7 above.

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In line 3 of claim 11 and line 2 of claim 12, "claims" should be change to --- claim --- since the claims are alternative.

Claim 12 is unclear by not requiring a step of culturing as required in the preamble. It is suggested the claim be amended after "osteocytes" in line 2 by inserting --- , and culturing said osteocytes in the presence of said scaffold ---.

Conclusion

Claims 1-3 are allowed.

Claims 4-8, 11 and 12 are free of the prior art.

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to David M. Naff whose telephone number is 571-272-0920. The examiner can normally be reached on Monday-Friday 9:30-6:00.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mike Wityshyn can be reached on 571-272-0926. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

David M. Naff Primary Examiner Art Unit 1651

DMN 9/7/04

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